INTERINATIONAL SEARCH REPORT

International Application No T/EP2004/051181

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C10G65/12 C10G C10G45/58 C10G67/04 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 C10G Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Y EP 0 921 184 A (SCHUEMANN SASOL SOUTH 1-11 AFRICA P) 9 June 1999 (1999-06-09) paragraphs '0004!, '0033!, '0034! '0039! - '0041!; claims 1,4,6; tables 5,7 Υ US 3 730 876 A (SEQUEIRA A) 1-4,7-11 1 May 1973 (1973-05-01) column 1, line 36 - line 45 column 2, line 50 - line 66; claims 1,12 Υ WO 98/01515 A (SHELL INT RESEARCH ; SHELL 1-8,10.CANADA LTD (CA)) 15 January 1998 (1998-01-15) page 5, line 33 - page 6, line 8 page 9 - page 11; claim 1 Χ Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: *T* later document published after the international filling date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document, such combination being obvious to a person skilled in the art. O document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 13 October 2004 25/10/2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016 Deurinck, P

INTERINATIONAL SEARCH REPURT

International Application No F/EP2004/051181

Cicontinuation) DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with Indication, where appropriate, of the relevant passages Y EP 0 575 077 A (MOBIL OIL CORP) 22 December 1993 (1993–12–22) page 4 page 7, line 15 - line 33; claim 1 page 6, line 45 - line 50 Y US 3 790 472 A (WHITE R) 5 February 1974 (1974–02–05) column 3, line 35 - column 4, line 32; claims 1,2 A US 2002/146358 A1 (SMITH BEN D ET AL) 10 October 2002 (2002–10–10) paragraph '0080! - paragraph '0087!; claims 1,2,5,6,10,11 A WO 99/45085 A (CHEVRON USA INC) 10 September 1999 (1999–09–10) claim 1 A WO 02/064710 A (GERMAINE GILBERT ROBERT BERNAR; WEDLOCK DAVID JOHN (GB); SHELL INT) 22 August 2002 (2002–08–22) claims 1,13	1-4,7,8, 10,11 1-4 1-11 1-11
22 December 1993 (1993-12-22) page 4 page 7, line 15 - line 33; claim 1 page 6, line 45 - line 50 US 3 790 472 A (WHITE R) 5 February 1974 (1974-02-05) column 3, line 35 - column 4, line 32; claims 1,2 US 2002/146358 A1 (SMITH BEN D ET AL) 10 October 2002 (2002-10-10) paragraph '0080! - paragraph '0087!; claims 1,2,5,6,10,11 WO 99/45085 A (CHEVRON USA INC) 10 September 1999 (1999-09-10) claim 1 WO 02/064710 A (GERMAINE GILBERT ROBERT BERNAR; WEDLOCK DAVID JOHN (GB); SHELL INT) 22 August 2002 (2002-08-22)	10,11
5 February 1974 (1974-02-05) column 3, line 35 - column 4, line 32; claims 1,2 US 2002/146358 A1 (SMITH BEN D ET AL) 10 October 2002 (2002-10-10) paragraph '0080! - paragraph '0087!; claims 1,2,5,6,10,11 WO 99/45085 A (CHEVRON USA INC) 10 September 1999 (1999-09-10) claim 1 WO 02/064710 A (GERMAINE GILBERT ROBERT BERNAR; WEDLOCK DAVID JOHN (GB); SHELL INT) 22 August 2002 (2002-08-22)	1-11
10 October 2002 (2002-10-10) paragraph '0080! - paragraph '0087!; claims 1,2,5,6,10,11 WO 99/45085 A (CHEVRON USA INC) 10 September 1999 (1999-09-10) claim 1 WO 02/064710 A (GERMAINE GILBERT ROBERT BERNAR; WEDLOCK DAVID JOHN (GB); SHELL INT) 22 August 2002 (2002-08-22)	1-11
WO 02/064710 A (GERMAINE GILBERT ROBERT BERNAR; WEDLOCK DAVID JOHN (GB); SHELL INT) 22 August 2002 (2002-08-22)	
BERNAR ;WEDLOCK DAVID JOHN (GB); SHELL INT) 22 August 2002 (2002-08-22)	1-11

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No T/EP2004/051181

Debet					T/EP2004/051181	
Patent document cited in search report		Publication date		Patent family member(s)	Publication date	
EP 0921184	Α	09-06-1999	ZA EP JP SG	9809528 A 0921184 A1 11269470 A 75901 A1	19-04-2000 09-06-1999 05-10-1999 24-10-2000	
		ر. بد <u>م</u> مرد مرد برد ما ما الله بد ما ما	US	6315891 B1	13-11-2001	
US 3730876	A [.]	01-05-1973	NONE			
WO 9801515	А	15-01-1998	AT AU AU BR CA CN DE	206154 T 716734 B2 3542397 A 9710699 A 2255782 A1 1222182 A	15-10-2001 02-03-2000 02-02-1998 17-08-1999 15-01-1998 C 07-07-1999	
			DE EA WO EP ID JP KR US ZA	69706985 D1 69706985 T2 717 B1 9801515 A1 0909304 A1 17652 A 2000514124 T 2000022145 A 6051127 A 9705980 A	31-10-2001 11-04-2002 28-02-2000 15-01-1998 21-04-1999 15-01-1998 24-10-2000 25-04-2000 18-04-2000 30-01-1998	
EP 0575077	A	22-12-1993	SG US AU CA EP JP AU	45043 A1 5358628 A 656471 B2 2097093 A1 0575077 A1 6065584 A 3990693 A	19-12-1997 25-10-1994 02-02-1995 16-12-1993 22-12-1993 08-03-1994 16-12-1993	
US 3790472	Α	05-02-1974	NONE			
US 2002146358	A1	10-10-2002	AU BR GB JP NL WO ZA	2768502 A 0208326 A 2381002 A , 2004526034 T 1020311 C2 02081598 A1 200202596 A	10-10-2002 09-03-2004 B 23-04-2003 26-08-2004 07-10-2002 17-10-2002 24-10-2002	
WO 9945085	A	10-09-1999	US AU CA DE EP NO WO ZA	6663768 B1 763831 B2 2489599 A 2322777 A1 69910740 D1 1354931 A2 1060231 A1 20004445 A 9945085 A1 9901440 A	16-12-2003 31-07-2003 20-09-1999 10-09-1999 02-10-2003 22-10-2000 30-12-2000 30-10-2000 10-09-1999 21-09-1999	
WO 02064710	Α	22-08-2002	BR BR CA	0207091 A 0207092 A 2437858 A1	20-01-2004 20-01-2004 20-08-2002	

INTERNATIONAL SEARCH REPURT

Information on patent family members

International Application No
T/EP2004/051181

Potent desument			₩1/EP2004/051181		
cited in search report	Publication date	Patent family member(s)		Publication date	
Patent document cited in search report WO 02064710 A	Publication date	WO 0. WO 0. EP EP 2004 WO 0.2 WO 0.2 WO 0.2 WO 0.2 EP EP 1 EP 1 P 2004 WO 0.2 EP EP 1 P 2004 NO 20 NO	tent family	Publication	
		US 2004	074810 A1 099571 A1	22-04-2004 27-05-2004	
~			079675 A1 045868 A1	29-04-2004 11-03-2004	